

Montana Department of Public Health and Human Services

EMS and Trauma Systems Section

Recommended Pediatric Equipment and Supplies for MT Emergency Departments

NOTE: All institutions who offer emergency care to the community must consider special needs of children. The following list identifies minimum pediatric equipment items that are recommended for emergency departments in trauma facilities as noted. These are indicated for one expected critical pediatric patient. Some items of inventory will need to be adjusted for any additional critical pediatric patients. EDs with a high volume of ill and injured pediatric patients may need additional items not on this list. ED healthcare providers must be trained in the use of all equipment and supplies available for pediatric care. Routine equipment and supplies such as tape, dressings, tourniquets, gloves, syringes etc. available for care of adults and children were not included on this list. Medication lists that follow are also minimal and should be expanded given the scope of ED staff practice and facility therapeutics. Whenever possible, equipment and supplies should be incorporated into a pediatric weight/length-based color-coded system for ease of ready access and utilization. Latex-free, Latex-safe supplies should be available whenever possible.

E = Essential D = Desirable * Essential equipment that may be shared with the hospital but is available to the ED

Pediatric equipment and supplies	Regional Trauma Center	Area Trauma Hospital	Community Trauma Facility	Trauma Receiving Facility
<i>Monitoring Equipment</i>				
Cardiac monitor with defibrillator/cardioversion/transcutaneous pacing capability and adult/pediatric paddles/multifunction pads, adult/pediatric monitor electrode patches	E	E	E	E
Internal Paddles	E	E		
Cardiorespiratory monitor with strip recorder	E	E*	D*	D*
Pulse Oximeter with sensor sizes newborn through adult	E	E	E	E
Thermometer/rectal probe: Suitable for hypo/hyperthermia, temperature capability 25C-44C (77F-112F)	E	E	E	E
Sphygmomanometer w/cuffs (neonatal-adult thigh)	E	E	E	E
Doppler BP device	E	E	E	E
Stethoscope	E	E	E	E
Blood Glucose measurement device	E	E	E	E*
<i>Respiratory Equipment & Airway Management</i>				
Oxygen delivery device with tubing and flowmeter	E	E	E	E
Bag-Valve-mask, self-inflating (250, 450, 1000ml) w/clear masks (neonatal-adult), optional PEEP valve & no or easily disabled pop-off valve	E	E	E	E
Oxygen masks, regular & non-rebreather, neonatal-adult	E	E	E	E
Nasal cannulae (infant, child, adult)	E	E	E	E
Nebulized medication administration sets	E	E	E	E
Endotracheal tubes cuffed (4-10) and uncuffed (2-5), infant –adult sizes	E	E	E	E
Stylets for ET tubes, adult & pediatric	E	E	E	E
Laryngoscope handle	E	E	E	E
Laryngoscope blades straight (0, 1, 2, 3) curved (2, 3)	E	E	E	E
Magill forceps, pediatric and adult	E	E	E	E
ET CO2 detector device, disposable, pediatric and adult	E	E	E	E
Oropharyngeal airways (sizes 0-5)	E	E	E	E

Nasopharyngeal airways (sizes 12Fr-30Fr)	E	E	E	E
Suction catheters (6, 8, 10, 12, 14, 16Fr)	E	E	E	E
Yankauer/rigid suction tip	E	E	E	E
Bulb syringe	E	E	E	E
Naso/Orogastric tubes (6Fr-18Fr)	E	E	E	E
Feeding tubes (5fr, 8fr)	E	E	E	E
Suction capability (wall, portable)	E	E	E	E
Tube thoracostomy tray with closed water seal drainage capacity and chest tubes (sizes 8-40Fr)	E	E	E	E
Laryngeal Mask Airway (sizes 1-5) if within local use	E	E	D	D
King Tube (2, 2.5, 3, 4, 5) if within local use	E	E	D	D
Surgical/Needle Airway capability; may include any of the following: tracheostomy tray, cricothyroidotomy tray, ET JV (needle jet) kit	E	E	E*	E*
Vascular Access				
Arm Boards, infant-adult	E	E	E	E
Catheter-over-needle peripheral IV devices (14-24ga)	E	E	E	E
Butterfly Needles (19-25ga)	E	E	E	E
IV Infusion Device (rate limiting) pump w/appropriate needleless/safety tubings	E	E	E*	E*
IV Administration Sets w/calibrated chambers, appropriate needleless/safety tubings, extensions, stopcocks & connectors	E	E	E	E
Intraosseus needles, sizes 16 & 18ga (may be standard bone marrow aspiration needles, 13 or 15ga)	E	E	E	E*
Venous Cutdown Equipment	E	E	D	
IV Solutions; standard crystalloids (0.9NS, LR, D10W, D5/.2NS, D5/.45NS) 500ml & 1000 ml	E	E	E	E
Single-lumen Seldinger-technique vascular access kit (Ped. sizes 3, 4, 5Fr)	E	E	E*	E*
CVP Monitoring Equipment	E	E	D	
Arterial catheters	E	D	D*	
Miscellaneous				
Pediatric Cart/bag w/defined list of weight-based contents, easily accessed, wlist on outside	E	E	E	E*
Weight/length-based dosing/equipment resuscitation tape	E	E	E	E
Infant, standard scales	E	E	E	E*
Infant formula, oral rehydration solutions	E	E	E*	E*
Warming devices				
Patient: age-appropriate	E	E	E*	E*
IV Fluids/blood	E	E	D*	D*
Pediatric urinary catheters	E	E	E	E
Pediatric Restraining Devices	E	E	E	E*
Sterile linen for burn care	E	E	E*	E*
Medical Photography equipment	E	E	D*	D*
Rapid Infusion Device		E	D*	D*
Peritoneal Lavage	E	E	D	
Fracture/Orthopedic Management				
Cervical/spinal immobilization supplies, age-appropriate (infant-large adult), including semi-rigid collars, backboards, towel rolls, straps, etc.	E	E	E	E*
Extremity splints	E	E	E	E
Femur splints*	E	E*	E*	E*
Pediatric Trays				
Lumbar puncture	E	E	E	E*
Obstetric pack	E	E	E	E*
Newborn Kit				
Meconium aspirator	E	E	E*	E*

Umbilical vessel cannulation catheters (3.5, 5 catheters, #5 feeding tube may be used)	E	E	E*	E*
Minor surgical instruments	E	E	E*	E*
Medications				
Resuscitation				
MONTANA POISON CONTROL access 1-800-222-1222				
Adenosine	E	E	E	E
Amiodarone	E	E	E	E
Atropine	E	E	E	E
Calcium Chloride	E	E	E	E
Dextrose	E	E	E	E
Dopamine	E	E	E	E
Epinephrine (1:1000, 1:10,000)	E	E	E	E
Flumazenil	E	E	E	E
Lidocaine	E	E	E	E
Magnesium Sulfate	E	E	E	E
Naloxone	E	E	E	E
Sodium Bicarbonate (4.2%, 8.4%)	E	E	E	E
Rapid Sequence/Drug-Assisted Intubation				
Induction agents	E	E	E	E
Paralytic medications	E	E	E	E
Other Medications				
Activated Charcoal (with & without sorbitol)	E	E	E	E
Analgesics	E	E	E	E
Antibiotics (parenteral)	E	E	E	E
Anticonvulsants (benzodiazepines, barbituates)	E	E	E	E
Antidotes (including cyanide kit)	E	E	E	E
Antipyretics	E	E	E	E
Bronchodilators	E	E	E	E
Corticosteroids	E	E	E	E
Diuretics	E	E	E	E
Insulin	E	E	E	E
Local Anesthetics	E	E	E	E
Narcotics	E	E	E	E
Ocular Anesthetics	E	E	E	E
Sedatives/hypnotics	E	E	E	E
Tetanus: Toxoid, diphtheria-Tetanus, dPT, Immune globulin	E	E	E	E

These recommendations are made utilizing guidelines consistent with those of the American Academy of Pediatrics , the Committee on Pediatric Equipment and Supplies For Emergency Departments, the National Emergency Medical Services For Children Resource Alliance and the Montana Trauma Resource Facility Criteria.

June, 2009